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#### **ABSTRACT**

This report discusses the attitudes of Wyoming teachers toward tests and their use. The teachers' educational background in tests and measurement; the use of tests by teachers; and the classroom testing practices of teachers were evaluated. A questionnaire was developed and administered. The results indicated that Wyoming teachers' testing practices are consistent with results in other states. On the average, Wyoming teachers spend six hours a week constructing and giving classroom tests. They use tests to measure student achievement, evaluate their own teaching. determine grades, identify weaknesses, review material, and for ongoing assessment. Over 90 percent of Wyoming teachers believe that standardized tests are not the best way to evaluate a teacher's effectiveness. Almost 60 percent believe that teachers understand standardized test results. Over 60 percent believe that a competency test requirement for students would raise educational standards. Attitudes toward classroom tests were, on the average, slightly favorable, while attitudes toward standardized tests tended to be unfavorable. The survey instrument is appended. (DWH)

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# WYOMING TEACHERS' USE OF TESTS AND ATTITUDES TOWARD CLASSROOM AND STANDARDIZED TESTS'\*

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### INTRODUCTION

Testing in American schools has been and continues to be a subject of controversy from the local to the national level. With accountability demands placed on district, state, and national educational institutions and the information demands of objective-based instructional systems, testing at all levels has increased. The overwhelming majority of states have instituted minimum competency testing at some level for high school graduation, for college matriculation, for teacher certification (Yeh, 1980). The modes of testing and the content of tests may be changing, but testing itself remains a fact of life in the public and private educational systems.

This report deals with several different aspects of attitudes toward and use of tests in Wyoming schools from the perspective of the teacher. The teacher is the primary contact between the student and the educational system. Teachers' attitudes toward the tests they give and toward the practice of testing can influence many facets of education: the quality of the tests given, the meaning in test scores, the way in which the information is used, the evaluations made by students (and parents) as well as by the teacher, and the students' perceptions of themselves, the school, and the instructional process. In addition, to some degree the teacher assesses his or her own performance as an educator and the effectiveness of the curriculum on the basis of classroom and standardized test results.

The information on the following pages reports Wyoming teachers' educational background in tests and measurements—the amount and recency of training and the perceived effectiveness of that training; the use of tests by Wyoming teachers—how often they are given, what kinds, and for what purposes; the



classroom testing practices of Wyoming teachers—the amount of time spent on test construction, the use of contemporary measurement techniques, and the use of test results and attitudes of Wyoming teachers toward classroom and standardized tests, and toward current issues in testing.

It is hoped that this document will both provide both baseline information and directions to further investigation regarding teachers use of tests in Wyoming schools.

### **METHODS**

### Instrument

The questionnaire was pretested with several teachers who were enrolled at the University of Wyoming as graduate students. This resulted in some revisions. In its final form the questionnaire contained 49 items addressing the following areas: (a) demographic/background information, (b) educational history of the subjects, especially coursework in tests and measurement, (c) classroom testing practices, (d) attitudes toward classroom tests, (e) standardized testing practices, (f) attitudes toward standardized tests, and (g) interests in in-service training in tests and measurements. Response format varied by section; formats used were Likert scales, free response, and fixed response.

### Subjects

Our goal was to survey approximately 500 teachers in the State of Wyoming. The size of the potential subject population was based on expectations of 70% return rate. Such a return rate would yield grade-level and subjectarea subsamples sufficiently large enough in number for separate analysis.



The procedure used for subject selection was as follows: A master list of all Wyoming educators was obtained from the State Department of Education. Two names per page were selected from this list (credentialed teachers only) and these persons were included in the first mailing. The 15th and 30th names on each page were chosen. The teachers in this potential subject pool were sent a letter explaining the nature of the study (Appendix A), a copy of the questionnaire, and a stamped return envelope.

A return rate of 55% was obtained from the first mailing. Approximately two weeks later a postcard reminder was sent to nonrespondents. An additional 14% of the subject pool responded to this reminder. A final mailing was sent approximately two weeks later. Subjects received a second copy of the questionnaire and a stamped return envelope with this mailing. An additional 12% of the subject pool responded. The final sample consisted of 555 subjects, or 81% of the original pool.

Characteristics of the participating subjects are summarized in Table 1.

The sample includes a greater percentage of females, primarily as a consequence of the overrepresentation of females among elementary school teachers. The greatest percentage of teachers in the total sample and at each of the three grade level subsamples is in the 30 to 39 years age range. The average number of years of teaching experience is 12.

The greatest proportion of subjects teach in Wyoming towns. The distribution of rural, town, and city schools appears consistent with that of all Wyoming schools. The greater percentage of rural elementary teachers participating is probably a function of the fact that elementary aged children are likely to be sent to local, rural schools, but junior and senior high aged rural children are likely to be transported to consolidated county schools



Table 1. Sample characteristics a

| •                          | Total<br>Sample<br>(n=555) | Elementary<br>(n=288) | Junior<br>High<br>(n=103) | Senior<br>High<br>'(n=129) |
|----------------------------|----------------------------|-----------------------|---------------------------|----------------------------|
| Sex                        |                            |                       |                           |                            |
| Male                       | 46.5                       | 21 ·                  | 50.0                      | 59.5                       |
| Female                     | 63.5                       | 79                    | 50.0                      | 40.5                       |
| Age Group                  | •                          |                       |                           |                            |
| 20-29                      | 21                         | 24                    | 18                        | 19                         |
| 30-39                      | 40                         | 37                    | 44                        | 46                         |
| 40-49                      | 24                         | 23                    | 26                        | 24                         |
| 50-59                      | 13                         | 14                    | 12                        | 14                         |
| 60+                        | 2                          | 2                     | 1                         | 2                          |
| Years Teaching             |                            |                       |                           |                            |
| Experience                 | 12                         | 12                    | 12                        | 13                         |
| Location of<br>School      |                            |                       |                           |                            |
| Rural                      | 22                         | 26                    | 16                        | 17                         |
| Town                       | 55                         | 52                    | 54 ·                      | 56                         |
| City                       | 24                         | 22                    | 30                        | 27                         |
| Bachelors<br>U.W. Graduate | 108<br>33                  | 100<br>32             | ቁ ወ0.<br>36               | 100<br>32                  |
| Masters<br>U.W. Graduate   | 23<br>33                   | 16<br>33              | 36<br>37                  | 32<br>28                   |

<sup>&</sup>lt;sup>a</sup>Figures are expressed as percentage of total sample or subsample. <sup>b</sup>Figure is expressed as percent of total sample with bachelor degree who obtained degree from University of Wyoming.



located in towns or cities.

All of the participating teachers reported that they hold bachelor degrees, with approximately one-third obtaining their degrees from the University of Wyoming. Approximately 23% of the total sample hold master's degrees.

A greater percentage of teachers at the secondary level than at the elementary level have completed these advanced degrees. Of those subjects with masters degrees, again approximately one-third obtained those degrees from the University of Wyoming.

The background in tests and measurements of the participating subjects is summarized in Table 2. Eighty-two percent of the subjects report having taken coursework in tests and measurements (elementary: 81%; junior high: 84%; senior high: 86%). Of these 82%, almost all (94%) had some coursework in this area at the undergraduate level, and approximately one-half have had some form of in-service. With few exceptions, the coursework in tests and measurements was required. In spite of the high percentage of subjects with a background in the tests and measurements area, the coursework may be quite dated. On the average the last coursework in this area was completed 10 years prior to the survey. This coursework was perceived as fair to good in quality but only somewhat useful.

Subject area responsibilities of the participating teachers are listed in Tables 3, 4, and 5. The participating sample appears to be representative in terms of their teaching responsibilities. As expected, the majority of elementary teachers are responsible for all content areas. At the junior and senior high levels the most frequently reported areas of responsibility are in the core areas of English, math, social studies, science, and physical education. There is also a minority representation from the vocational fields of industrial arts and home economics at the senior high level.



Table 2. Course work in tests and measurements

| Tin                     | Total<br>Sample | Elementary | Junior<br>High | Senior<br>High |
|-------------------------|-----------------|------------|----------------|----------------|
| When taken              |                 |            |                |                |
| Undergraduate           | 94%             | 97%        | 93%            | 90%            |
| Graduate                | 62              | 57         | 70             | 67             |
| Inservice               | 51              | 49         | 57             | 53             |
| Required                | 92%             | 92%        | 93%            | 91%            |
| Median year of          |                 |            |                |                |
| most recent             | 4.07.1          | 1074       | 1074           | 1072           |
| course                  | 1974            | 1974       | 1974           | 1 97 3         |
| Perceived quality       |                 |            |                |                |
| of course               |                 |            |                |                |
| Excellent               | 9%              | . 8%       | 10%            | 9%             |
| Good                    | 42              | 41         | 39             | 44             |
| Fair                    | 38              | 42         | 36             | 32             |
| Poor                    | 12              | 9          | 15             | 14             |
| Unintelligible          | 0               | 0          | . 0            | . 1            |
| Perceived usefulness of |                 |            |                |                |
| course                  | 170             | 1 4%       | 1 9%           | 17%            |
| Very useful             | 17%             | 60         | 67             | 67             |
| Somewhat useful         | 62              | 60         | 0/             | 0/             |
| Not useful in my        | 7               | 7          | 4              | 8              |
| subject area            | 7               | 7          | 4              | O              |
| Not useful at my        | 8               | 14         | 4              | 2              |
| grade level             | Ō               | 14         | 4              | 4              |
| Total waste of          | 4               | r          | 6              | 7              |
| time                    | 6               | 5          | U              | /              |



Table 3. Subject area responsibilities of the elementary sample (n=294)

| Area               | Percent | (n)   |
|--------------------|---------|-------|
| All subjects       | 63      | (186) |
| Reading            | 4       | (13)  |
| Math               | 4       | ( 12) |
| Music              | 4       | (12)  |
| Special Education  | 4       | ( 12) |
| Physical Education | 4       | ( 11) |
| English            | 3       | ( 8)  |
| Science            | 2       | ( 7)  |
| Social Studies     | 2       | ( 6)  |
| Resource Room      | 2       | ( 6)  |
| Other              | 11      | ( 32) |
| Not reported       | 5       | ( 16) |



Table 4. Subject area responsibilities of the junior high sample (n=103)

| Area               | Percent | (n)  |
|--------------------|---------|------|
| Math               | 19      | (20) |
| Social Studies     | . 17    | (17) |
| Science            | 16      | (16) |
| English            | 1 4     | (14) |
| Language Arts      | 10      | (10) |
| Physical Education | 9       | ( 9) |
| Music              | 7       | (7)  |
| Industrial Arts    | . 7     | (7)  |
| Home Economics     | 6       | ( 6) |
| Health             | 4       | ( 4) |
| Special Education  | 4       | ( 4) |
| Other              | 15      | (15) |
| Not reported       | 1       | ( 1) |



Table 5. Subject area responsibilities of the senior high sample (n=129)

| Area               | Percent | (n)  |
|--------------------|---------|------|
| English            | 19      | (25) |
| Social Studies     | 17      | (22) |
| Math               | 13      | (17) |
| Business Education | . 12    | (15) |
| Science            | 9       | (12) |
| Physical Education | 5       | (7)  |
| Industrial Arts    | 5       | (7)  |
| Home Economics     | 5       | ( 6) |
| Auto Mechanics     | 5       | ( 6) |
| Other              | 23      | (30) |
| Not reported       | 1       | (1)  |



### **RESULTS**

### Classroom Testing Practices of Subjects

On the average, Wyoming teachers spend six hours  $(\overline{X}=6.15)$  a week constructing and giving classroom tests. This figure includes the making up of test questions, putting the tests together, administering, marking, and going over tests. Elementary level teachers report that they construct fewer of their own test items than secondary level teachers, t(1,482)=-8.68,p<.01, and that they rely more heavily on items provided in teacher manuals, t(1,455)=6.88,p<.01. Elementary teachers also differ from secondary teachers in the nature of the test they construct. Elementary teachers use true-false, essay, and short answer type items less frequently than secondary teachers,  $t(1,463=-2.71,p<.01;\ t(1,450)=-9.39,p<.01;\ t\ (1,498)=-6.21,p<.01;\ respectively.$  Elementary and secondary teachers use multiple choice, completion and matching items with approximately the same frequency (see Appendix B).

Elementary teachers report using norm-referenced, criterion-referenced, and diagnostic tests more frequently than secondary teachers, t(1,471)=-3.59, p<.01; t(1,459)=-4.50,p<.01; t(1,462)=-4.85,p<.01; respectively. There is no difference in the frequency in which the two educational groups use performance and competency tests. The finding of greater use of criterion-referenced tests at the elementary level is not surprising given that the mastery of basic skills is emphasized at this level. Nor is the greater use of diagnostic tests at this level unexpected. Sound educational practices include the early identification of weaknesses for remediation. The greater use of norm-referenced tests at the elementary level is surprising, however. The expectation is that comparisons with the achievement of classmates or other groups are more important at the higher educational levels where curriculum and



career decisions require knowledge of the student's abilities relative to others. Perhaps respondents equated norm-referenced tests with standardized tests which provide comparisons with national norm groups, ignoring classroom tests which provide comparisons with the local peer group. Such an interpretation is consistent with the fact that elementary teachers report that they administer standardized tests more frequently than secondary teachers (see Table 8).

At both the elementary and secondary levels little use appears to be made of those classroom testing skills typically taught in tests and measurements courses. Teachers report that they rarely use Bloom's Taxonomy of Objectives, test reliability, descriptive statistics, or item analysis. Further, computer technology has not been extended to classroom testing practices. Teachers report that, on the average, they never use microcomputers for test administration or analysis, and rarely use micros for grade keeping. Micros for grade keeping is more common at the secondary level, t(1,399)=-2.98,p<.01.

The measurement of achievement is the major reason why Wyoming teachers give classroom tests (see Table 6). Less common reasons for administering classroom tests are to evaluate their own teaching and to determine grades. There is little variance in the reported purposes for giving classroom tests across the three educational levels.

### Major Uses of Standardized Tests

The major uses of standardized tests reported by the sample are listed in Table 7. In general, there appears to be consensus among the three grade levels about the appropriate uses of standardized tests. The findings are summarized below.



Table 6. Major purposes in giving classroom tests

|                              | Total<br>Sample<br>(n=513) | Elementary<br>(n=226) | Junior<br>High<br>(n=97) | Senior<br>High<br>(n=122) |
|------------------------------|----------------------------|-----------------------|--------------------------|---------------------------|
| Measure of achievement       | 82                         | 81                    | 86                       | 35                        |
| Evaluation of own teaching   | 29                         | 29                    | 18                       | 26                        |
| Determination of grades      | 21 .                       | 18                    | 26                       | 26                        |
| Identification of weaknesses | 13                         | 14                    | 13                       | 7                         |
| Review of material           | 12                         | 12                    | 7                        | 14                        |
| On-going assessment          | 8                          | 9                     | 7                        | 7                         |



- \* Nearly one-third of the sample (28%) noted that one major reason why they administered standardized tests to their students was to fulfill district requirements.
- \* Standardized tests were more likely to be used to identify student weakness at the elementary level than at the secondary level.
- \* Standardized tests were used as a measure of growth or progress most frequently at the senior high level.
- \* Standardized tests were used least frequently for the purpose of comparing students with norms at the senior high level.
- \* Junior high school teachers most frequently used standardized tests to assist with placement decisions.
- \* Senior high school teachers most frequently used standardized tests to evaluate their curriculum and to evaluate their own teaching.
- \* Standardized tests are rarely used by teachers for on-going assessment purposes.

Those standardized tests reportedly used by the teachers in the sample are listed in Table 8.

### Attitudes Toward Current Issues in Testing

One portion of the questionnaire was directed toward determining the attitudes of Wyoming teachers toward current national and local issues in the field of tests and measurements (see Appendix C). The results are summarized below:

- \* The vast majority (90.4%) of Wyoming teachers believe that standardized tests are not the best way to evaluate a teacher's effectiveness.
- \* Only a small minority (2.9%) of teachers believe that teachers whose students score higher on standardized tests should receive higher salaries.



Table 7. Major uses of standardized tests

|                                     | Total<br>Sample<br>(n=251) | Elementary<br>(n=186) | Junior<br>High<br>(n=46) | Senior<br>High<br>(n=19) |
|-------------------------------------|----------------------------|-----------------------|--------------------------|--------------------------|
| Identification of weaknesses        | 29                         | 33                    | 24                       | 21                       |
| Required by district                | 28                         | 29                    | 28                       | 16                       |
| Measure growth or progress          | 22                         | 24                    | 15                       | 32                       |
| Evaluation of curriculum            | 21                         | 23                    | 22                       | 32                       |
| Assistance with placement decisions | 21                         | 19                    | 33                       | 21                       |
| Comparison of students with norms   | 14                         | 16                    | 17                       | 5                        |
| Evaluation of teaching              | 10                         | 11                    | 15                       | 32                       |
| On-going assessment                 | 4                          | 2                     | 11                       | 16                       |



Table 8. Standardized tests given and teachers

| Tests given by elementary | Junior High           | Senior High        |
|---------------------------|-----------------------|--------------------|
| SRA (74 <sup>a</sup> )    | SRA (14)              | SRA (4)            |
| lowa Test of Basic        | lowa Test of Basic    | -Woodcock (4)      |
| Skills (37)               | Skills (11)           | Stanford Achieve-  |
| Stanford Achievement      | Stanford Achieve-     | ment Test (3)      |
| Test (32)                 | ment Test (7)         | lowa Test of Basic |
| Metropolitan Achievement  | California Test of    | Skills (2)         |
| Test (23)                 | Basic Skills (6)      | Brigance (2)       |
| California Test of        | Metropolitan Achieve- | •                  |
| Basic Skills (18)         | ment Test (3)         | Others:            |
| Otis (9)                  | district test (3)     | Accounting Test    |
| ~ Gates McGintie (5)      |                       | WRAT               |
| -Stanford Diagnostic      | Others:               | Otis               |
| Test (5)                  | MMP I                 | California Test of |
|                           | President's Physical  | Basic Skills       |
| Others:                   | Fitness Test          |                    |
| - Woodcock                | ~Stanford Diagnostic  |                    |
| - Herman Nelson           | Reading Test          |                    |
| President's Physical      | WRAT                  |                    |
| Fitness Test              | -Ginn Reading Test    | ·                  |
| -Metropolitan Reading     | California Achieve-   |                    |
| Readiness Test            | ment Test             | ·                  |
| district test             | -Gates McGintie       | `                  |
| Key Math                  | Otis                  |                    |
| Brigance                  | -Woodcock             |                    |
| -Ginn Reading Test        |                       |                    |
| WRAT                      |                       |                    |
| Stanford-Binet            |                       |                    |
| Boehm Test of             |                       |                    |
| Basic Skills              |                       |                    |
|                           |                       |                    |

a Number reporting use of that test.



- \* A minority (38.5%) of teachers advocate a required standardized testing program for districts throughout the state.
- \* A majority (57.6%) believe that teachers understand standardized test results.
- \* A majority (61.1%) of teachers believe that a competency test requirement for students would raise educational standards.
- \* A minority (44.1%) believe that requiring teachers to pass competency tests would raise educational standards.
- \* A minority (26.7%) of teachers believe that handicapped students should be exempt from any competency requirements.
- \* A majority (62.2%) of teachers support a uniform grading system within a district

# Attitudes Toward Classroom and Standardized Tests

Another portion of the questionnaire included items directed toward assessing several aspects of attitudes toward tests. Individual items were combined into subscales by using factor analysis to identify item clusters. The facets of attitudes, number of items in each facet, the internal consistency reliability ( $Cronbach's \alpha$ ), and included items (see Appendix A) are:

- \* Value of Tests, 6 questions,  $\alpha = .64$  (Items 21, 22, 27, 28, 29, 35)
- \* Personal Past Experience with Tests, 3 questions,  $\alpha$ =.61 (Items 24, 30. 39)
- \* Test Fairness, 5 questions,  $\alpha$ =.64 (Items 20, 23, 25, 31, 36)
- \* Disadvantages of Tests, 6 questions,  $\alpha$ =.68 (Items 26, 32, 33, 34, 37, 38)
- \* Standardized Test Usefulness, 5 questions,  $\alpha$ =.75 (Items 40, 41, 42, 43, 44)
- \* Usefulness of Standardized Test Results, 5 items,  $\alpha$ =.68 (Items 5, 6, 7, 9, 10)

Table 9. Attitudes toward classroom and standardized tests

| Subscale                        | Tota<br>Mean      | sD  | Elemer<br>Mean | sD_              | Junior<br>Mean | High<br>SD | Senior<br>Mean | High<br>SD       |
|---------------------------------|-------------------|-----|----------------|------------------|----------------|------------|----------------|------------------|
| Value of Tests                  | 4.18 <sup>a</sup> | .63 | 4.15           | . G2             | 4.19           | .60        | 4.24           | .64              |
| Personal Experience with Tests  | 4.02              | .65 | 3.99           | .66 <sup>-</sup> | 4.07           | . 58       | 4.07           | .66              |
| Test Fairness                   | 4.02              | .53 | 3.99           | .54              | 4.03           | .46        | 4.08           | .54              |
| Test Disadvantages              | 3.41              | .63 | 3.33           | .59              | 3.48           | .66        | 3.53           | .66 <sup>b</sup> |
| Standardized Test<br>Usefulness | 3.54              | .74 | 3.60           | .71              | 3.50           | .69        | 3.45           | .82              |
| Standardized Test<br>Result Use | 2.75              | .84 | 2.75           | .81              | 2.81           | .86        | 2.70           | .89              |

<sup>&</sup>lt;sup>a</sup>Ratings were on a 1-6 scale, with 6 indicating a more favorable attitude toward tests.



<sup>&</sup>lt;sup>b</sup>Group differences are significant at p<.05.

There were slight differences in attitudes across grade level, with attitude being more favorable as grade level increased. The only facet for which differences were significant was Disadvantages of Tests, with senior high teachers seeing tests as having fewer disadvantages than elementary level teachers. Cumulatively, however, effects were significant as well (F=5.89, p<.01).

Attitudes toward classroom tests were, on the average, slightly favorable while attitudes toward standardized tests tended to be unfavorable.

Comparison of Wyoming and South Dakota Teachers

Gullickson (1982) surveyed the testing practices of 336 South Dakota teachers in grades 3, 7, and 10 in the curricular areas of science, social studies and language arts. Although the Gullickson study is more restricted than the current sample in terms of grade and subject areas, it provides some interesting comparisons.

The Wyoming sample reports greater course work preparation in the tests and measurements area, with 82% having taken one or more courses compared to 57% of the South Dakota sample. However, there appears to be little difference in the frequency of use by the two teacher groups of those principles traditionally taught in such courses. Both teacher groups report that they rarely use descriptive statistics, item difficulty indices or reliability information (see Table 10).

The identical proportion (93%) of teachers in the two state samples report that they generate their own test items in the construction of classroom tests (Table 10). The use of published items, such as those found in teacher manuals appears more prevalent in Wyoming. In both samples elementary teachers rely more heavily on published items than secondary teachers. An interest-



Table 10. Comparison of South Dakota and Wyoming testing practices

|   | Wyoming              | South Dakota         |
|---|----------------------|----------------------|
| Uses descriptive statistics                                   | 19 <sup>a</sup>      | 10-13                |
| Uses item difficulty indices                                  | 34                   | 31                   |
| Uses reliability estimates                                    | .29                  | 29                   |
| Uses short answer items                                       | 85                   | 92                   |
| Uses matching items   | 83                   | 77                   |
| Uses multiple choice items                                    | 54                   | 68                   |
| Uses true-false items   | 54                   | 68                   |
| Uses essays   | 53                   | 58                   |
| Writes own items elementary junior high senior high           | 93<br>88<br>98<br>98 | 93<br>85<br>NA<br>96 |
| Uses items from publishers elementary junior high senior high | 85<br>89<br>75<br>82 | 60<br>75<br>61<br>47 |
| Uses other teachers items elementary junior high senior high  | 34<br>32<br>45<br>35 | NA<br>9<br>20<br>9   |

<sup>&</sup>lt;sup>a</sup>Figures for Wyoming indicate the percent of teachers who reported the behavior listed as at least "sometimes" characteristic of themselves.



ing pattern was noted in the Gullickson study concerning the sharing of test items by teachers which was replicated in the current study. Junior high teachers are more likely than elementary or senior high teachers to share items, t(1,82)=-1.91,p<.03. Two factors may account for this finding. At the junior high level there is both a core curriculum and multiple sections of each class. Collaboration would therefore be more likely than at the elementary level, with fewer sections of each class, or at the senior high level, where the curricula is more varied.

Teachers in both states administer classroom tests with the same frequency, about once or twice a week. Wyoming teachers report that they spend a greater amount of time on test construction (a median of 300 minutes vs. 190 minutes for the South Dakota sample). The time difference appears to be accounted for in differences in the time spent in correcting tests. The Wyoming sample reports spending four times as much time in correcting tests (2 hours vs. 30 minutes).

Both groups report an identical order of preference of item types in classroom testing. That order is short answer, matching, multiple choice, true-false and essay. Elementary teachers in both samples use essay items less frequently than teachers at other educational levels. Other patterns in item use noted in the Gullickson sample were not replicated in the Wyoming sample. For example, elementary teachers in South Dakota use multiple choice items less frequently than secondary teachers while Wyoming elementary teachers use true-false and short answer items less frequently.

### Comparison of Elementary Teachers in Wyoming and California

Yeh et al. (1981) recently surveyed 260 elementary teachers from 20 rural and urban schools in the State of California to assess their testing practices.



Thirty-nine percent of the California sample reported that they had two or more college courses in tests and measurements compared to 26% of the Wyoming sample. Approximately an equal percentage of teachers from both samples reported no previous course work (23% California vs. 19% Wyoming). A majority of teachers in both samples reported some form of in-service on these topics.

Wyoming teachers report that their primary reasons for giving classroom tests are to measure achievement, evaluate their own teaching and determine grades. California elementary teachers report that they use classroom tests to evaluate the effectiveness of the classroom program, provide information to others, and assign grades. Both samples felt that too much time was spent on testing.

Only 72% of the Wyoming elementary teachers administer standardized tests to their classes in contrast to all California elementary teachers. The results of such tests appeared to be used more systematically by the California sample, chiefly for reading and math placement decisions. The results of standardized tests appeared to play only a minor role in the placement decisions of the Wyoming sample.

### Interest in Inservice Training

Table 11 presents a summary by grade level taught of reported interest in inservice training. Considerable interest was expressed in performance testing (as opposed to paper-and-pencil tests). Interest was also expressed, surprisingly, in assessing test reliability and validity and in using microcomputers for testing.



Table 11. Interest in inservice training

| Topic   | Total            | Elementary | Junior<br>High | Senior<br>High    |
|---|------------------|------------|----------------|-------------------|
| Understanding the results of standard-ized tests                          | 24% <sup>a</sup> | 26%        | 20%            | ,<br>2 <b>3</b> % |
| Constructing criterion-<br>referenced tests                               | 32               | 31         | 38             | 27                |
| Assessing test relia-<br>bility and validity                              | 47               | 40         | 55             | 55                |
| Developing tests to use<br>for selecting children<br>for special programs | 34               | 44         | 26             | 19                |
| Designing classroom<br>tests  | 42               | 37         | 49             | 47                |
| Selecting standardized tests for your school                              | 16               | 20         | 12             | 11                |
| Writing objective items   | 13               | 9          | 17             | 19                |
| Writing and grading essay tests   | 24               | 18         | 28             | 34                |
| Alternatives to paper and pencil tests                                    | 15               | 56         | 41             | 48                |
| Using microcomputers in testing   | 44               | 43         | 41             | 46                |

<sup>&</sup>lt;sup>a</sup>Percent indicating an interest in this topic.



### Discussion

Results of this survey of Wyoming teachers' testing practice are consistent with results found in other states, with Wyoming teachers possibly reporting slightly greater use of contemporary testing techniques. Several points will be revised below.

All Wyoming teachers have at least a bachelor's degree, with 23% having a master's. However, 18% of the sample have had no previous tests and measurements coursework at all, either in a degree program or on an inservice basis.

And, for those having such coursework, on the average it's been 10 years since it was updated. Perceptions of tests and measurements coursework were reported as positive regarding quality but negative regarding utility - being only somewhat useful. Fennessey (1982) suggests that training in this area would ideally be focused on the student's area of the curriculum. Thus, multiple sections or blocks of courses would need to be offered, with each tailored to tests and measurement as used in that subject area (e.g., physical education, art, English). The suggestion was also made that grade level be considered, with courses structured for elementary and secondary levels.

As an average, respondents reported spending 6 hours per week (nearly 15% of their time) on classroom tests. However, they report only occasional use of item analysis, descriptive test and item statistics, behavioral objectives, Bloom's taxonomy, etc. Goehring (1981) found that a majority of teachers and principals thought use of reliability and validity coefficients and item/test analysis data to be important in sound testing practice. It may be inferred that tests are used extensively but that testing practice may be less than optimal. Newman & Stallings (1982) found teachers to be no more competent in their testing practice now than they were a decade or more ago. Extensive



use of tests (with its concommitant demand on teacher time) and failure to use testing principles held to be important by most textbook authors suggests that this area is in need of revision. Change could come in the application of microcomputer technology. Use of micros for testing would hopefully reduce demands on Leacher time and also would efficiently provide test and item statistics useful in improving tests. Change could also come via a centralization of testing resources (e.g., item banks) which could be made available to classroom teachers.

Consistent with Lazar-Morrison (1980), it was found that while teachers give standardized tests, the results are not always (or even often) used. Attitudes toward use of standardized tests in the present study were, on the average, negative: Lambert (1981) lists suggestions for altering practice/attitudes: teachers should learn more about existing tests and how to interpret them (favored by deans and AFT-NEA officials), teachers should accept standardized tests as useful measures (favored by legislators), and teachers must be cautioned against over-reliance on tests. Agencies named as potentially instrumental in effecting change were professional associations, local school district offices, state departments of education, and teacher organizations.

As Table 11 shows, teachers in the sample expressed considerable interest in upgrading their skills in tests and measurement with particular interest in the performance testing and the use of microcomputers.



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### THE UNIVERSITY OF WYOMING

COLLEGE OF EDUCATION - BOX 3374 DEPARTMENT OF EDUCATIONAL FOUNDATIONS AND INSTRUCTIONAL TECHNOLOGY

### LARAMIE, WYOMING 82071

February 10, 1984

Dear Wyoming Educator:

Do you think that standardized tests are the best way to evaluate a teacher's effectiveness? Do you think that all districts should have a uniform grading system? Do you think that handicapped pupils should be exempt from competency test requirements?

We (Kathy and Susan) are interested in your answers to these questions and others. We are surveying teachers in the state to find out how they use tests, both classroom and standardized, what attitudes are about tests, and how they think testing practices could be improved. Your participation with this project is requested. The survey results will help us to identify topics which may need emphasis in the undergraduate program here at the UW, or which could be covered in in-service workshops. .-

This project is being carried out by the two of us as a University research project. We have the approval and financial support of both the University and the State Department of Education (i.e., postage and printing). Your participation is the key to the success of this project, however. Your reply is important for several reasons. Fine we won't get an accurate representation of attitudes of teachers from your grace and subject area without your reply. Second, because our sample will be fairly small (due to budget limitations) each reply is valuable.

We wish to assure you that your reply will be anonymous. We have written an ID number on the first page of the survey. This ID number will let us know that you have returned the questionnaire so we will not send you any follow-up

If you have any questions, please write them at the end of the questionnaire or on a separate page along with your address and we will try to answer them. Or, call us directly at 766-5329.

Thank you for your help.

Sincerely,

Kathy Green, Ph.D.

Assistant Professor

Susan Stager, Ph.D. Assistant Professor



| SURVEY OF WYOMING TEACHERS' TEST USE AND ATTITUDES   | ,  |
|--|----|
| SURVEY OF WYOMING TEROITED   | •  |
| SURVEY OF WYOMING TEACHERS' TEST USE   |    |
| Dept. of Educational Foundation of Education |    |
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| please write in or the initial section requests buchyon lowing questions. The initial section requests information information; the following section requests information.  |    |
| information; the following section   |    |
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| 1. Grade (s) currently taught  | -  |
| 1 Grade(s) currently taught  | -  |
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| the sching experience have you had   |    |
| In what subject and the subjec | _  |
| (including this year); do you hold:  | _  |
| b. What university degree (s) do you From UW? yes n  |    |
| Degree Major From UW? Yes  | 70 |
| 2. A. How many years of coar)? (including this year)? b. What university degree (s) do you hold:  Degree Major From UW? yes not begree Major From UW? yes not begree Major From UW? Yes not begree Major From UW?  |    |
| Degree Major 30-39 30-49 50-59 60+  3. a. Age group: 20-29 30-39 50 50 50 50 60+  b. Sex: Male Female port printer of measurements?  |    |
| 3 A Age group: 20-29 30-32 950 W 19-2-2-3-3  |    |
| b. Sex: Male, Female   |    |
| in tests and measurements?   |    |
| 4. a. Have you had course work in tests and measurements?  yes (CONTINUE BELOW) no (GO TO QUESTION 5)  |    |
| yes (CONTINUE BELOW)   |    |
| j j j v j m " "  |    |
| b. If yes, how many courses?  Undergrad  Graduate  Trace any of these required? yes no   | -  |
| c. Were any of these required? yes no  |    |
| c. Were any of these required? Yes in tests and d. When was your most recent course in tests and   |    |
| d When was your most recent  |    |
| manager omento:  |    |
| measurements?  19 measurements?  e. What are your perceptions of the quality and perceptions of the quality and measurements courses?  19 19 19 19 19 19 19 19 19 19 19 19 19  |    |
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| Usefulness: Very useful  |    |
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| Not useful at my grade level   |    |
| Not uset of time   |    |
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29

|  | •  |                         |                  |       |  |
|--|--|-------------------------|------------------|-------|--|
| circl<br>most<br>the f<br>are n<br>to th | Use and Attitudes: Please e the number corresponding closely to your opinion about ollowing statements. There o right or wrong answers lese questions—we would like opinions.  | Moderately Disagree     | trongly Disagree |       | Strongly Agree Moderately Agree Agree Disagree Moderately Disagree   |
| ••                                       | Standardized tests are the best way to evaluate a teacher's effectiveness.   | , z.<br>. 5             | 6                |       | Standardized tests assess only unimportant educational outcomes. 1 2 3 4 5 6   |
|  | Teachers whose students score higher on standardized tests   |                         | ·<br>.'          | 42.   | Standardized tests force teachers to "teach to the test." 1 2 3 4 5 6  |
| •  | should receive higher salaries. 1 2 3 4  | <b>5</b>                | 6                | 43.   | Low scores on standardized tests damage a student's self-concept. 1 2 3 4 5  |
| 7.                                       | All districts in the state should<br>be required to use the same<br>standardized testing program. 1 2 3 4  | 5                       | 6                |       | Standardized tests generate harmful anxiety in students. 1 2 3 4 5   |
|  | Teachers do not understand with the property standardized test results.  | <sup>(1)</sup> <b>5</b> | 6                | 45.   | Do you administer (a) standardized test(s) to your class? yes (CONTINUE BELOW) no (GO TO QUESTION 47)                |
| •  | Requiring students to pass competency tests would raise educational standards. 1, 2 3 4  | 5                       | 6                |       | If yes, please complete the following:   |
|  | Requiring teachers to pass competency tests would raise educational standards. 1 2 3 4   | ; <i>j</i>              | 6                |       | Name of Test Given: Fall Winter Spring   |
| 11.                                      | Handicapped students should be exempt from any competency test requirements. 1 2 3 4   | 5                       | 6                | rith. | Name of Test  III Given: "Fall Winter Spring  If you use (a) standardized test(s), for what purposes do  you use it? |
|  | School districts should have a uniform grading system, for example, percentage cut-offs. 1 2 3 4   | 11 .<br><b>5</b>        | 6                | •     | 2.   |
|  | the state of the s | •                       |                  |       | 3.   |
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| BEST CO A.C.  | rice ya<br>Ta |            |       |          | 9              |             | 13.  | From where do you get your test items? Plese indicate an approximate percentage.  |
|---|---------------|------------|-------|----------|----------------|-------------|------|---|
|   | Agree         | tely Agree |       | ee       | tely Disagr    | ly Disagree |      | Construct my own Use items from manuals Use other teachers' items Other?  |
|   | Strongly      | Moderat    | Agree | Disagree | Moderately     | Strongly    | 14.  | How often do you give classroom tests?  More than once a week   |
| Test scores are a fair way to grade students.   | 1.            | 2          | 3     | 4        | ·<br>5         | 6           | •    | Once a week Once every two weeks Once a month   |
| Tests tend to discriminate against minority students.                                     | 1             | . 2        | 3     | 4        | 5              | 6           | ,    | Less frequently than once a month   |
| Teachers' testing practices are often ineffective.  |               | 2          | . 3   | 4        | <sub>.</sub> 5 | 6           | 15.  | Approximately how many hours per week are spent doing the following activities?   |
| Tests measure only superficial aspects of what students know and can do.                  | <br>. 1       | 2          | 3     | 4        | 5              | 6           |      | Making up test questions  Putting the test together  Marking tests  Administering and going over tests                                |
| Test construction takes up more time than it's worth.                                     | . 1           | 2          | 3     | 4        | 5              | 6           | 16.  | What are your major purposes in giving classroom tests?   |
| The tests I took as a student were generally good assessments of my knowledge of an area. | 1             | 2          | 3     | 4        | :<br>5         | 6           |      | 2   |
| Tests tend to create too much anxiety in students.  | 1             | 2          | 3     | 4        | 5              | 6           | 1 17 | Jo you use criterion-referenced tests? yes no   |
| Too many tests are given to students already.   | 1             | 2          | 3     | 4        | 5              | 6           | ±1•. | If yes, how do you set criteria? Use pre-set criteria   |
| At present I have no objections to taking tests myself.                                   | 1             | 2          | 3     | 4        | 5              | 6           |      | Use distribution of students' scores Use standards from previous administrations Other?   |
| DARDIZED TESTS  |               |            |       |          |                |             | _    |   |
| Standardized tests serve no useful  Standardized tests serve no useful  32                | ٠1            | 2          | 3     | 4        | 5              | 6           | 18.  | On the average, what percent of a student's grade will be based on classroom test results (as opposed to projects, attendance, etc.)? |

| 19.  | How often do you use each of the following in your classroom testing? Please circle the appropriate response. If not applicable to your content area, circle "never." | Never  | Rarely | Sometimes | Frequently  | Very Often | liways     | c.<br>c. | or the following questions, please<br>rcle the number corresponding most<br>osely to your opinion about the<br>catement. The first set of questions | 96       | Agree      |          |          | isagree |   |
|------|---|--------|--------|-----------|-------------|------------|------------|----------|---|----------|------------|----------|----------|---------|---|
|      |   | 1      | 2      | 3         | <b>1</b> 24 | ;><br>5    | <i>R</i> i |          | efer to CLASSROOM TESTS.  | Agree    |            |          |          | Ä       | • |
|      | True-false questions  |        | 2      | •         | -3<br>A     | 5          | 6          |          |   | •        | ely        |          | ø        | ely     | , |
| •    | Essay questions   | ,<br>T | 2      | ى<br>م    | . 4         | 5          | 6          |          |   | Strongly | rat        | <u>o</u> | Disagree | rat     | • |
| •    | Multiple choice questions   | 7      | 2      | 3         | 4           | 5          | 6          | <b>τ</b> |   | tro      | Moder      | Agree    | isa      | ode     |   |
|      | Short answer questions  | 1      | 2      | 3         | 4           | 5          | 6          |          |   | ഗ        | <b>X</b> . | Æ        | Д        | æ       | ( |
|      | Completion questions  | 1,     | 2      | . 3       | 4           | 5          | 6          | 20       | ). Testing has a favorable impact on  | •        | _          | •        |          |         |   |
|      | Matching questions  | 1      | 2      | 3         | 4           | 5          | 6          |          | student motivation.   | Τ.       | 2          | 3        | 4        | 5       | • |
|      | Diagnostic tests  | 1      | 2      | 3         | 4           | 5          | 6          | 2        | l. Tests are of little value in   | _        |            | _        |          | _       |   |
|      | Norm-referenced tests   | 1      | 2      | 3         | 4           | 5          | 6          |          | identifying learning problems.  | 1        | 2          | 3        | 4        | 5       | ( |
|      | Criterion-referenced tests  | 1      | 2      | 3         | 4           | 5          | 6          | 2        | 2. Tests tend to penalize the brighter,   |          |            |          | • •      |         |   |
|      | Performance tests   | 1      | . 2    | 3         | 4.          | 5          | 6          |          | more creative students.   | 1        | 2          | 3        | 4        | 5       | ( |
|      | Competency tests  | 1      | 2      | 3         | 4           | 5          | 6          | 2        | 3. Teachers spend too little time testing.  | 1        | 2          | 3        | 4        | 5       | ( |
|      | Behavioral objectives   | 1      | 2      | 3         | 4           | 5          | 6          |          | · · · · · · · · · · · · · · · · · · ·   |          |            |          | •        |         |   |
|      | Table of specifications   | 1      | 2      | 3         | 4           | 5          | 6          | 2        | 4. I did well on tests when I was in school.  | 1        | 2          | 3        | 4        | 5       | 1 |
|      | Higher-level questions (i.e., application, analysis, evaluation)  | 1      | 2      | . 3       | 4           | 5          | 6          | 2        | 5. Tests are effective ways to direct   |          | 2          | •        |          | r.      | , |
|      | Graphs, tables, maps, etc. with items   | 1      | 2      | 3         | 4           | 5          | 6          |          | student learning.   | Ŧ        | 2          | 3        | 4        | Э       | , |
|      | Files of previously used test items   | 1      | 2      | 3         | 4           | 5          | 6          | 2        | 6. Tests measure too many things besides  |          |            | •        | •        | -       | • |
| :    | Bloom's taxonomy  | 1      | 2      | 3         | 4           | 5          | 6          | ٣        | knowledge of content.   | . 1      | 2          | 3        | 4        | 5       |   |
|      | Test reliability  | 1      | 2      | 3         | 4           | 5          | 6          | , 2      | 7. I have not found my own test results   | _        | _          | _        |          | _       |   |
|      | Descriptive test statistics   | 1      | 2      | 3         | 4           | 5          | 6          | •        | to be of much value to me.  | 1.       | 2          | 3        | 4.       | 5       |   |
|      | Item difficulty levels  | 1      | 2      | 3         | 4           | 5          | 6          | 2        | 8. Tests are of great value in  |          |            |          |          |         |   |
|      | Item analyses   | 1      | 2      | 3         | 4           | 5          | 6          |          | communicating with parents about a student's progress.  | 1        | 2          | 3        | 4        | 5       |   |
|      | Cut-off scores for mastery tests  | 1      | 2      | 3         | 4           | .5         | 6          | •        | O The impositional construct  |          |            |          |          |         |   |
| ٠.   | Microcomputers for test taking  | 1      | 2      | 3         | .4          | 5          | 6          | 2        | 9. It is relatively easy to construct tests in my subject area.   | 1        | 2          | 3        | 4        | 5       |   |
|      | Microcomputers for test analysis  | 1      | 2      | 3         | 4           | 5          | 6          | •        |   |          | 2          |          | A        | e       |   |
| ERIC | Microcomputers for grade keeping  | 1      | . 2    | 3         | 4           | 5          | 6          | 3        | O. I personally dislike taking tests.   | _        | 35         | _        | ** ,     | Ð       | • |

| standardized tests:  useless 1 2 3 4 5 6 7 useful disfavor 1 2 3 4 5 6 7 favor  48. Also, please indicate your overall attitude toward classroom tests:  useless 1 2 3 4 5 6 7 useful disfavor 1 2 3 4 5 6 7 favor  49. Listed below are some topics that could serve as the basis for inservice training. Please check any topics that you would be especially interested in learning more about.  Understanding the result of standardized tests Constructing criterion-referenced tests for your class(es) Assessing the reliability and validity of your own tests Developing tests to use for selecting children for special programs Designing classroom tests Selecting standardized tests for your school writing objective item types   |
|--|
| 48. Also, please indicate your overall attitude toward classroom tests:  useless 1 2 3 4 5 6 7 useful disfavor 1 2 3 4 5 6 7 favor  49. Listed below are some topics that could serve as the basis for inservice training. Please check any topics that you would be especially interested in learning more about.  Understanding the result of standardized tests  Constructing criterion-referenced tests for your class(es)  Assessing the reliability and validity of your own tests  Developing tests to use for selecting children for special programs  Designing classroom tests  Selecting standardized tests for your school   |
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| useless 1 2 3 4 5 6 7 useful disfavor 1 2 3 4 5 6 7 favor  49. Listed below are some topics that could serve as the basis for inservice training. Please check any topics that you would be especially interested in learning more about.  Understanding the result of standardized tests Constructing criterion-referenced tests for your class(es) Assessing the reliability and validity of your own tests Developing tests to use for selecting children for special programs Designing classroom tests Selecting standardized tests for your school writing objective item types  |
| disfavor 1 2 3 4 5 6 7 Favor  49. Listed below are some topics that could serve as the basis for inservice training. Please check any topics that you would be especially interested in learning more about.  Understanding the result of standardized tests Constructing criterion-referenced tests for your class(es)  Assessing the reliability and validity of your own tests  Developing tests to use for selecting children for special programs  Designing classroom tests  Selecting standardized tests for your school  |
| 49. Listed below are some topics that could serve as the basis for inservice training. Please check any topics that you would be especially interested in learning more about.  Understanding the result of standardized tests  Constructing criterion-referenced tests for your class(es)  Assessing the reliability and validity of your own tests  Developing tests to use for selecting children for special programs  Designing classroom tests  Selecting standardized tests for your school   |
| Writing and grading essay tests  Alternatives to paper and pencil tests  Using microcomputers in testing  Other?  Do you have any questions about or comments on this survey think should have been included which should be sho |

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APPENDIX B

How often do you use each of the following in your classroom testing?

|  | Never | Rarely | Sometimes | Frequently | Very Often | Always |
|--|-------|--------|-----------|------------|------------|--------|
| True-false questions   | 19.1  | 27.0   | 37.5      | 12.0       | 3.0        | 1.1    |
| Essay questions  | 28.1  | 18.1   | 25.0      | 13.9       | 10.1       | 4.1    |
| Multiple choice questions  | 9.1   | 9.1    | 30.8      | 32.8       | 15.9       | 2.2    |
| Short answer questions   | 9.7   | 5.4    | 26.0      | 31.3       | 21.9       | 5.6    |
| Completion questions   | 9.9   | 10.9   | 29.2      | 29.6       | 17.4       | 3.0    |
| Matching questions   | 7.9   | 9.6    | 34.9      | 31.0       | 15.0       | 1.7    |
| Diagnostic tests   | 22.7  | 21.5   | 28.0      | 16.4       | 8.2        | 3.2    |
| Norm-referenced tests  | 41.6  | 30.2   | 20.4      | 3.7        | 3.1        | 1.0    |
| Criterion-referenced tests                                       | 34.0  | 15.8   | 26.8      | 12.9       | 7.0        | 3.5    |
| Performance tests  | 13.2  | 12.2   | 27.6      | 24.7       | 17.8       | 4.5    |
| Competency tests   | 28.5  | 16.2   | 26.0      | 16.6       | 10.0       | 2.7    |
| Behavioral objectives  | 21.2  | 19.7   | 27.4      | 13.3       | 10.6       | 7.7    |
| Table of specifications  | 59.2  | 19.4   | 13.5      | 4.6        | 2.1        | 1.3    |
| Higher-level questions (i.e., application, analysis, evaluation) | 26.4  | 15.7   | 30.5      | 14.6       | 9.8        | 3.1    |
| Graphs, tables, maps, etc. with items                            | 26.9  | 20.6   | 31.6      | 14.9       | 5.7        | . 4    |
| Files of previously used test items                              | 21.9  | 19.0   | 30.8      | 19.0       | 6.7        | 2.5    |
| Bloom's taxonomy   | 51.5  | 14.5   | 20.5      | 7.6        | 4.1        | 1.8    |
| Test reliability   | 51.5  | 19.4   | 18.2      | 6.7        | 3.0        | 1.2    |
| Descriptive test statistics                                      | 60.4  | 20.7   | 13.0      | 3.5        | 1.4        | 1.0    |
| Item difficulty levels   | 47.5  | 18.4   | 19.4      | 8.9        | 3.9        | 1.9    |
| Item analysis  | 48.6  | 18.2   | 20.8      | 7.5        | 3.7        | 1.2    |
| Cut-off scores for mastery tests                                 | 43.8  | 14.5   | 1819      | 11.7       | 7.6        | 3.5    |
| Microcomputers for test taking                                   | 81.9  | 9.7    | 6.1       | .8         | 1.1        | . 4    |
| Microcomputers for test analysis                                 | 84.8  | 7.6    | 3.8       | 1.5        | 1.3        | 1.0    |
| Microcomputers for grade keeping                                 | 77.9  | 4.8    | 4.2       | 3.4        | 3.4        | 6.3    |



## APPENDIX C

|    | ,   | ; | Strongly Agree  | Moderately Agree | Agree | Disagree | Moderately Disagree | <br> Strongly Disagree |
|----|---|---|-----------------|------------------|-------|----------|---------------------|------------------------|
| 1. | Standardized tests are the best way to evaluate a teacher's effectiveness.                  |   | .4 <sup>a</sup> | 3.6              | 5.6   | 33.2     | 12.2                | 45.0                   |
| 2. | Teachers whose students score higher on standardized tests should receive higher salaries.  |   | . 2             | • 9              | 1.8   | 28.4     | 6.9                 | 61.8                   |
| 3. | All districts in the state should be required to use the same standardized testing program. |   | 5.1             | 8.2              | 25.2  | 24.5     | 7.5                 | 29.4                   |
| 4. | Teachers do not understand standardized test results.                                       |   | 3.3             | 10.0             | 29.1  | 36.1     | 11.5                | 10.0                   |
| 5. | Requiring students to pass competency tests would raise educational standards.              |   | 6.6             | 17.8             | 36.7  | 23.1     | 7.9                 | 7.9                    |
| 6. | Requiring <u>teachers</u> to pass competency tests would raise educational standards.       |   | 5.1             | 10.4             | 31.6  | 30.3     | 7.5                 | 15.1                   |
| 7. | Handicapped students should be exempt from any competency test requirements.                |   | 5.5             | 4.1              | 17.1  | 44.3     | 12.2                | 16.2                   |
| 8. | School districts should have a uniform grading system, for example, percentage cut-offs.    |   | 13.5            | 12.6             | 36.1  | 21.0     | 6.6                 | 10.2                   |

<sup>&</sup>lt;sup>a</sup>All figures are expressed as percent of the total sample (N=555).

